

CLAIMS

1. An image-information recording device, comprising:

image-data identifying means for identifying image data  
5 based on predetermined image data units and an image data  
unit group including the image data units;

image-information obtaining means for obtaining image  
information regarding the image data from the identified  
image data; and

10 image-information recoding means for recording, as  
image information data, the obtained image information onto  
a storage medium,

wherein the image information data is managed for each  
data unit on the storage medium.

15 2. An image-information recording device, comprising:

image-data identifying means for identifying image data  
based on predetermined image data units and an image data  
unit group including the image data units;

image-information obtaining means for obtaining image  
20 information regarding the image data from the identified  
image data; and

image-information recoding means for recording, as an  
image-information file group, the obtained image information  
onto a storage medium,

25 wherein the image-information file group is managed for

each data unit on the storage medium.

3. The image-information recording device according to claim 2, further comprising:

an image information memory for holding image  
5 information; and

image-information storing means for storing the  
obtained image information in the image information memory,  
wherein the image-information recording means records  
the image information, stored in the image information  
10 memory, in the image-information file group on the storage  
medium.

4. The image-information recording device according to  
claim 2, wherein the image-information file group includes a  
representative image file that holds predetermined  
15 representative images of the image data.

5. The image-information recording device according to  
claim 4, wherein each representative image is first complete  
image data of each image data unit.

6. The image-information recording device according to  
20 claim 4, wherein each representative image is an I picture  
in a front-end VOB of each image data unit.

7. An image-information display device, comprising:  
attribute obtaining means for obtaining, with respect  
to image data identified with predetermined image data units  
25 and an image data unit group including the image data units,

attributes of image information for the image data from  
image information data in which the image information is  
recorded on a storage medium for each image data unit;

condition inputting means for prompting input of a  
5 search condition regarding an attribute of the image  
information and receiving the input;

condition searching means for searching the attributes  
of the image information in accordance with the input search  
condition;

10 representative-image obtaining means for obtaining  
representative images of the image data for the respective  
image data units from the image information data in  
accordance with a result of the searching performed by the  
condition searching means; and

15 displaying means for displaying a list of the obtained  
representative images for the respective image data units.

8. An image-information display device, comprising:

attribute obtaining means for obtaining, with respect  
to image data identified with predetermined image data units  
20 and an image data unit group including the image data units,  
attributes of image information for the image data from  
image information data in which the image information is  
recorded on a storage medium for each image data unit;

condition inputting means for prompting input of a  
25 search condition regarding an attribute of the image

information and receiving the input;

condition searching means for searching the attributes of the image information in accordance with the input search condition;

5        representative-image obtaining means for obtaining representative images of the image data for the respective image data units from the image information file group in accordance with a result of the searching performed by the condition searching means; and

10       displaying means for displaying a list of the obtained representative images for the respective image data units.

9. The image-information display device according to claim 8, further comprising:

15       an image information memory for holding image information,

wherein the attribute obtaining means holds the obtained attributes in the image information memory;

20       the condition searching means searches the attributes held in the image information memory in accordance with the input search condition;

the representative-image obtaining means holds the obtained representative images in the image information memory; and

25       the displaying means displays a list of the representative images held in the image information memory.

10. The image information display device according to claim 8, further comprising:

link-information extracting means for extracting link information indicating relationships between the  
5 representative images and the image data from the image-information file group;

image selecting means for receiving an input of a selected representative image of the displayed representative image list; and

10 image reproducing means for identifying the image data associated with the selected representative image based on the link information and reproducing the image data.

11. An image-information recording method for an image-information recording device including an image information  
15 memory for holding image information for image data and means for recording, as an image-information file group, the image information onto a storage medium, the recording method comprising:

a step of identifying image data based on predetermined  
20 image data units and an image data unit group including the image data units;

a step of obtaining image information regarding the image data from the identified image data of the image data unit;

25 a step of storing the obtained image information in the

image information memory; and

a step of recording, as an image information file group,  
image information in the image information stored in the  
image information memory onto the storage medium for each  
5 image data unit.

12. An image-information displaying method for an image-  
information display device including an image information  
memory for holding image information, the method comprising:

a step of obtaining, with respect to image data  
10 identified with predetermined image data units and an image  
data unit group including the image data units, attributes  
of image information for the image data from an image-  
information file group in which the image information is  
recorded on a storage medium for each image data unit and of  
15 holding the attributes in the image information memory;

a step of prompting input of a search condition  
regarding an attribute of the image information and  
receiving the input;

a step of searching the attributes held in the image  
20 information memory in accordance with the input search  
condition;

a step of obtaining representative images of the image  
data for the respective image data units from the image-  
information file group in accordance with a result of the  
25 searching and of holding the representative images in the

image information memory; and

a step of displaying a list of the representative images for the respective image data units, the representative images being held in the image information memory.

13. A program for an image-information recording device including an image information memory for holding image information for image data and means for recording, as an image-information file group, the image information onto a storage medium, the program causing a computer to execute:

a step of identifying image data based on predetermined image data units and an image data unit group including the image data units;

a step of obtaining image information regarding the image data from the identified image data of the image data unit;

a step of storing the obtained image information in the image information memory; and

a step of recording, as an image information file group, image information in the image information stored in the image information memory onto the storage medium for each image data unit.

14. A program for an image-information display device including an image information memory for holding image information, the program causing a computer to execute:

a step of obtaining, with respect to image data identified with predetermined image data units and an image data unit group including the image data units, attributes of image information for the image data from an image-  
5 information file group in which the image information is recorded on a storage medium for each image data unit and of holding the attributes in the image information memory;

a step of prompting input of a search condition regarding an attribute of the image information and  
10 receiving the input;

a step of searching the attributes held in the image information memory in accordance with the input search condition;

a step of obtaining representative images of the image  
15 data for the respective image data units from the image-information file group in accordance with a result of the searching and of holding the representative images in the image information memory; and

a step of displaying a list of the representative  
20 images for the respective image data units, the representative images being held in the image information memory.